

**IN THE DRAWINGS:**

*Please accept the attached replacement drawing sheet for FIG. 6 marked  
"Replacement Sheet."*

**REMARKS**

Claims 1-15 are rejected. Claims 1-15 have been amended. Claims 1 and 9 are independent claims. Claims 1-15 are pending in the application.

Reconsideration of all grounds of rejection in the Office Action based upon the above amendment, and allowance of all of the pending claims are respectfully requested in light of the following remarks.

Applicants wish to thank the Examiner for indicating that dependent claims 5-6 and 13-14 would be allowable if rewritten to overcome the rejection(s) under 35 USC § 112, 2<sup>nd</sup> paragraph in the Office Action and to include all of the base claims and any intervening claims. At this time, applicants elect not to follow the Office Actions suggested course of action as it is believed that the base claims as currently present stand allowable as detailed below in response to the obviousness rejection of the base claims.

The Abstract of Disclosure stands objected to because it exceeds the 150 word limited suggested in MPEP § 608.01(b). In response, applicants have amended the abstract of Disclosure to not exceed 150 words.

Therefore, applicants respectfully request withdrawal of the objection to the Abstract of Disclosure.

The Specification stands objected to because of numerous typographical and grammatical informalities. In response, applicants have followed the Examiner's suggested course of action of reviewing the Specification and to clean up all informalities in the disclosure in addition to the specific informalities pointed out by the Examiner.

Therefore, applicants respectfully request withdrawal of the objection to the Specification.

The drawings stand objected to for informalities. In response, applicants submit the attached replacement sheet which proposes to amend FIG. 6 as suggested in the Office Action by replacing the Korean text with English text for reference character 611 (Broadcast Switch).

Therefore, applicants respectfully request entry of the attached replacement sheet to replace FIG. 6.

Claims 1-15 stand rejected under 35 USC § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicants regards as the invention. In response, applicants have followed the Examiner's suggested course of action of reviewing the Specification and to clean up all indefinite problems in the claims in addition to the specific instants pointed out by the Examiner.

Claims 1-4, 7-12 and 15 stand rejected under 35 USC § 103(a) as being unpatentable over Applicant's Admitted Prior Art (FIGs. 1-2) (hereafter "AAPA") in view of Bodeep et al. (US patent 5,822,102).

In response, applicants respectfully traverse this ground of rejection.

Claim 1 and 9, as amended, recites a Wavelength division multiplexing-passive optical network that enables an integration of broadcast and communication data, the network comprising, *inter alia*, an optical line terminal to (1) receive a digital broadcasting signal from **a broadcasting network** and first communication signal from an **internet protocol network**, and (2) **transmit a received broadcast and the first communication signal as a single integrated optical signal**.

In contrast, AAPA (FIGs. 1-2) fails to teach (1) receiv[ing] a digital broadcasting signal from **a broadcasting network** and a first communication signal from an **internet protocol network**, and (2) **transmit[ing] the digital broadcast signal and the first communication signal as a single integrated optical signal**. AAPA does not suggest or teach the integration of broadcast and communication signals as a single integrated optical signal as recited in the base claim.

Moreover, Bodeep fails to teach or suggest the integration of broadcast and communication signals (from an internet protocol network) as a single integrated optical signal as recited in the base claim. As can be seen by examining FIG. 1, Bodeep's reference character 102 discloses a "Data Server," not an IP network. Bodeep, as read by applicants, discloses a central office 10 including video and data maintained on servers 101 and 102. The video and data encoded 110A, 110B and summed 125 then transmitted by an optical transmitter 130 to a coupler 135 and transmitted to users via fiber optic cable distribution plant 20. In addition, to the video and data server BoDeep provides a plain old telephone service interface 150 which is coupled with the video and data server at coupler 135.

Nowhere in Bodeep's disclosure does it disclose a central office which provides for the integration of broadcast and communication signals (from an IP network) as a single integrated optical signal as recited in the base claim. Bodeep provides for the use of a 16-CAP ATM LAN standard (Col. 3, line 53) which is what the present invention seeks to avoid due to its drawbacks (see specification page 2, line 9). Accordingly, Bodeep fails to suggest or teach the present invention as recited in the base claim.

Therefore, reconsideration and withdrawal of this ground for rejection are respectfully requested.

The other claims in this application are each dependent from the independent claims discussed above and are therefore believed patentable for the same reasons. Since each dependent claim is also deemed to define an additional aspect of the invention, however, the individual consideration of the patentability of each on its own merits is respectfully requested.

The applicants submit that the claims, as they now stand, fully satisfy the requirements of 35 U.S.C. 103. In view of the foregoing amendments and remarks, favorable reconsideration and early passage to issue of the present patent application are respectfully solicited.

For all the foregoing reasons, it is respectfully submitted that all the present claims are patentable in view of the cited reference. A notice of Allowance is respectfully requested.

Should the Examiner deem that there are any issues, which may be best, resolved by telephone communication, please contact Applicant's undersigned Attorney at the number listed below.

Respectfully submitted,

Steve Cha  
Registration No. 44,069



Date: March 22, 2007

By: Steve Cha  
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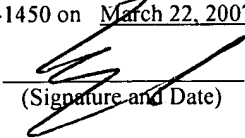
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(Signature and Date)